

MAR 15 2017

July Event

**DEPARTMENT OF ENVIRONMENT AND CONSERVATION****DIVISION OF WATER RESOURCES**

William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102
(615) 532-0625

MAR 15 2017

ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.	TMSP Number:	TNR050328
Contact Person:	Frank Keefer	Phone Number:	865-540-1933
This report is submitted for the following calendar year (e.g. 2015):	2016	Outfall Number:	SW001
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	7/5/2016
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

DIRECTIONS:

In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<0.20	Magnesium, Total	0.0636	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.671
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	<0.10	Total Suspended Solids	150	
Lead, Total	0.15		Zinc, Total	0.395	<0.05



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ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.	TMSP Number:	TNR050328
Contact Person:	Frank Keefer	Phone Number:	865-540-1933
This report is submitted for the following calendar year (e.g. 2015):	2016	Outfall Number:	SW002
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	7/5/2016
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

DIRECTIONS:

In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<0.20	Magnesium, Total	0.0636	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	<0.10
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	0.166	Total Suspended Solids	150	
Lead, Total	0.15		Zinc, Total	0.395	0.287



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ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.	TMSP Number:	TNR050328
Contact Person:	Frank Keefer	Phone Number:	865-540-1933
This report is submitted for the following calendar year (e.g. 2015):	2016	Outfall Number:	SW003
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	7/5/2016
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

DIRECTIONS:

In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	0.582	Magnesium, Total	0.0636	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.109
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	0.982	Total Suspended Solids	150	
Lead, Total	0.15		Zinc, Total	0.395	0.198

MAR 15 2017

AMEC - Knoxville, TN

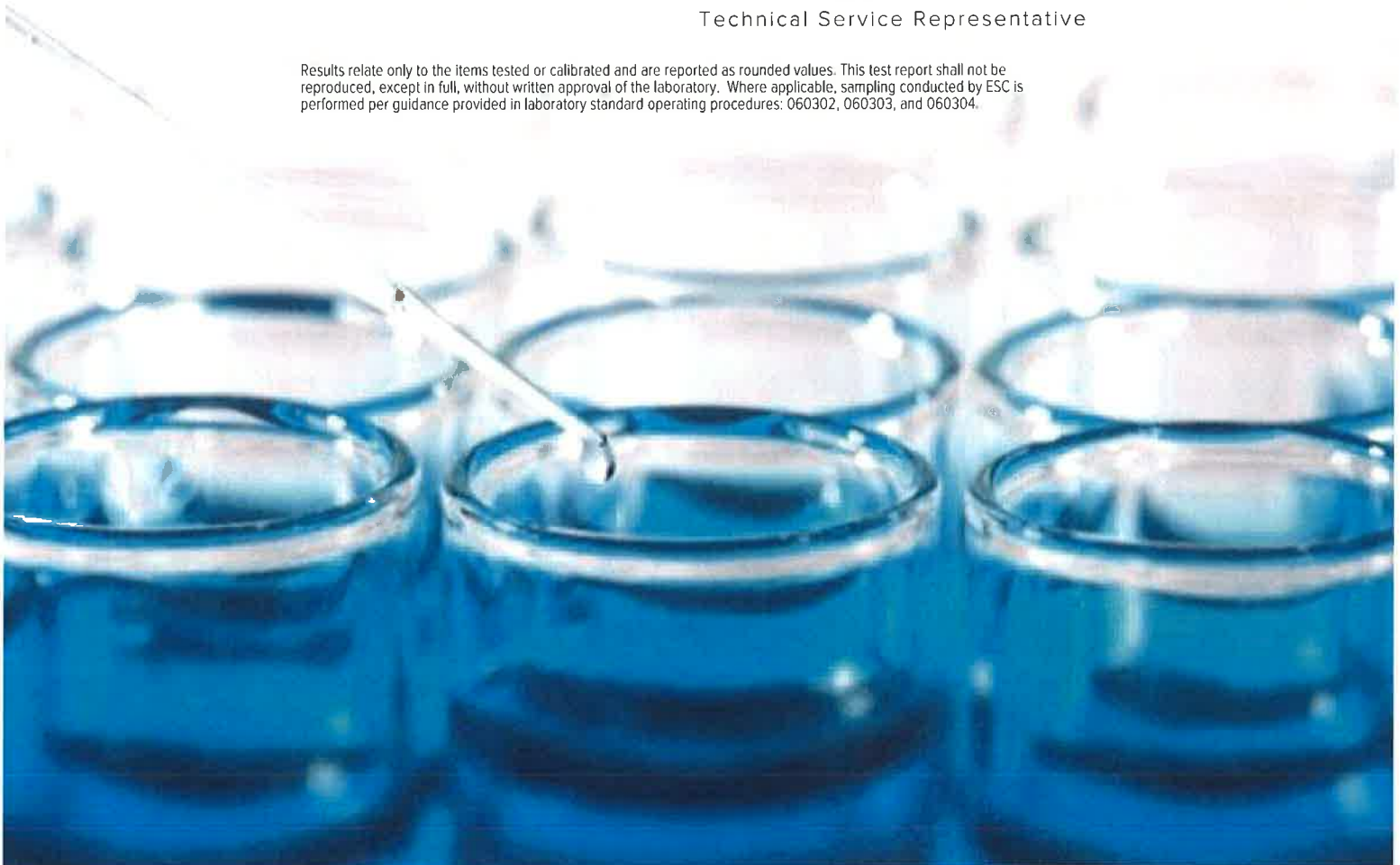
Sample Delivery Group: L845171
Samples Received: 07/06/2016
Project Number: 3031142002
Description: Aqua-Chem ECS
Site: AQUA-CHEM
Report To: Mr. William Tiechert
2030 Falling Waters Road; Ste 300
Knoxville, TN 37922

Entire Report Reviewed By:



Terrie Fudge
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





SWOF-002 L845171-01 WW

			Collected by	Collected date/time	Received date/time
			Jacob Parker	07/05/16 11:15	07/06/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG886431	1	07/06/16 18:17	07/07/16 12:08	CCE
Metals (ICP) by Method 200.7	WG886431	1	07/06/16 18:17	07/07/16 20:53	CCE
Wet Chemistry by Method 300.0	WG886371	1	07/06/16 14:49	07/06/16 14:49	SAM

SWOF-003 L845171-02 WW

			Collected by	Collected date/time	Received date/time
			Jacob Parker	07/05/16 11:20	07/06/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG886431	1	07/06/16 18:17	07/07/16 12:10	CCE
Metals (ICP) by Method 200.7	WG886431	1	07/06/16 18:17	07/07/16 21:01	CCE
Wet Chemistry by Method 300.0	WG886371	1	07/06/16 15:19	07/06/16 15:19	SAM

SWOF-001 L845171-03 WW

			Collected by	Collected date/time	Received date/time
			Jacob Parker	07/05/16 11:30	07/06/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG886431	1	07/06/16 18:17	07/07/16 12:13	CCE
Wet Chemistry by Method 300.0	WG886371	1	07/06/16 19:19	07/06/16 19:19	SAM

MAR 15 2017

Collected date/time: 07/05/16 11:15

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		0.100	1	07/06/2016 14:49	WG886371

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	ND		0.200	1	07/07/2016 12:08	WG886431
Iron	0.166		0.100	1	07/07/2016 12:08	WG886431
Zinc	0.287		0.0500	1	07/07/2016 20:53	WG886431

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Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	0.671		0.100	1	07/06/2016 19:19	WG886371

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	ND		0.200	1	07/07/2016 12:13	WG886431
Iron	ND		0.100	1	07/07/2016 12:13	WG886431
Zinc	ND		0.0500	1	07/07/2016 12:13	WG886431

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Method Blank (MB)

(MB) R3148110-1 07/07/16 11:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	0.077	J	0.0273	0.200
Iron	U		0.0282	0.100
Zinc	U		0.0034	0.0500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3148110-2 07/07/16 11:32 • (LCSD) R3148110-3 07/07/16 11:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	10.6	10.7	106	107	85-115			0	20
Iron	10.0	9.50	9.61	95	96	85-115			1	20
Zinc	1.00	1.14	1.15	114	115	85-115			0	20

L845281-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L845281-02 07/07/16 12:38 • (MS) R3148110-7 07/07/16 12:40 • (MSD) R3148110-8 07/07/16 12:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	10.6	10.5	106	104	1	70-130			1	20
Iron	10.0	ND	9.60	9.45	96	94	1	70-130			2	20
Zinc	1.00	0.0616	1.19	1.17	113	111	1	70-130			2	20

MAR 15 2017



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
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State Accreditations

MAR 15 2017

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{na} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



MAR 15 2017

August Event



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DIVISION OF WATER RESOURCES

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ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.	TMSP Number:	TNR050328
Contact Person:	Frank Keefer	Phone Number:	865-540-1933
This report is submitted for the following calendar year (e.g. 2015):	2016	Outfall Number:	SW005
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	8/18/2016
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

DIRECTIONS:

In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<0.20	Magnesium, Total	0.0636	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	<0.10
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	<0.10	Total Suspended Solids	150	
Lead, Total	0.15		Zinc, Total	0.395	<0.05

MAR 15 2017

AMEC - Knoxville, TN

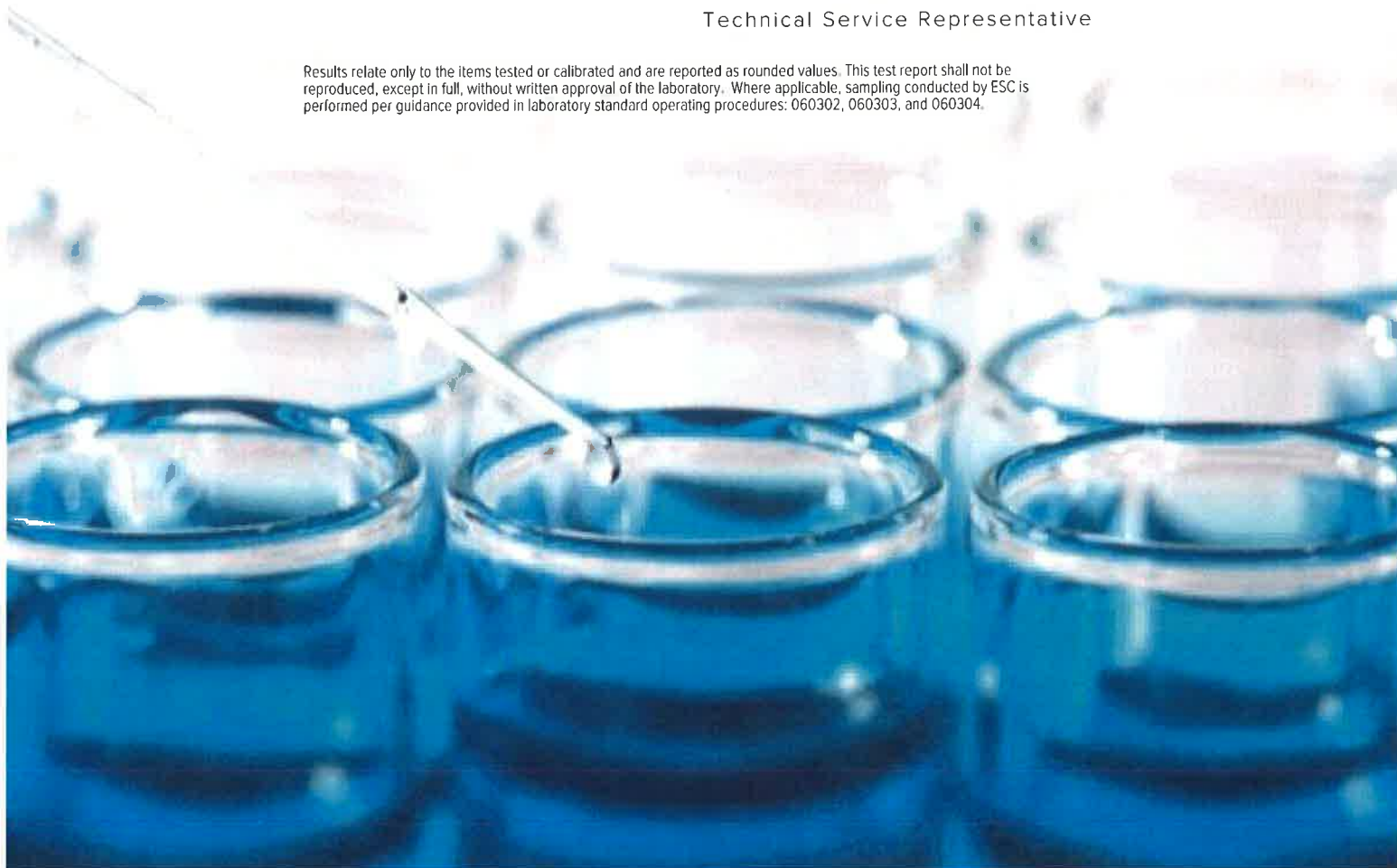
Sample Delivery Group: L854566
Samples Received: 08/19/2016
Project Number: 3031142002
Description: Aqua-Chem ECS
Site: AQUA-CHEM
Report To: Mr. William Tiechert
2030 Falling Waters Road; Ste 300
Knoxville, TN 37922

Entire Report Reviewed By:



Terrie Fudge
Technical Service Representative

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SW-OF-005 L854566-01 WW

Collected by
Noel GarlandCollected date/time
08/18/16 12:35Received date/time
08/19/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG900657	1	08/20/16 10:56	08/22/16 14:33	CCE
Wet Chemistry by Method 300.0	WG900662	1	08/19/16 19:20	08/19/16 19:20	SAM

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Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		0.100	1	08/19/2016 19:20	WG900662

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	ND		0.200	1	08/22/2016 14:33	WG900657
Iron	ND		0.100	1	08/22/2016 14:33	WG900657
Zinc	ND		0.0500	1	08/22/2016 14:33	WG900657

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Method Blank (MB)

(MB) R3158411-1 08/22/16 14:09

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Aluminum	U		0.0273	0.200
Iron	U		0.0282	0.100
Zinc	U		0.0034	0.0500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3158411-2 08/22/16 14:12 • (LCSD) R3158411-3 08/22/16 14:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCS Rec. %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits %
Aluminum	10.0	10.1	9.99	101	100			1	20
Iron	10.0	9.67	9.63	97	96			0	20
Zinc	1.00	1.03	1.02	103	102			1	20

L854622-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L854622-01 08/22/16 14:17 • (MS) R3158411-5 08/22/16 14:22 • (MSD) R3158411-6 08/22/16 14:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	10.1	10.0	101	100	1	70-130		1	1	20
Iron	10.0	0.228	9.93	9.83	97	96	1	70-130		1	1	20
Zinc	1.00	ND	1.06	1.05	104	103	1	70-130		1	1	20

L854711-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L854711-03 08/22/16 15:14 • (MS) R3158411-7 08/22/16 15:17 • (MSD) R3158411-8 08/22/16 15:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	10.0	10.1	100	100	1	70-130			0	20
Iron	10.0	ND	9.67	9.68	96	96	1	70-130			0	20
Zinc	1.00	0.0551	1.08	1.08	102	102	1	70-130			0	20

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State Accreditations

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Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

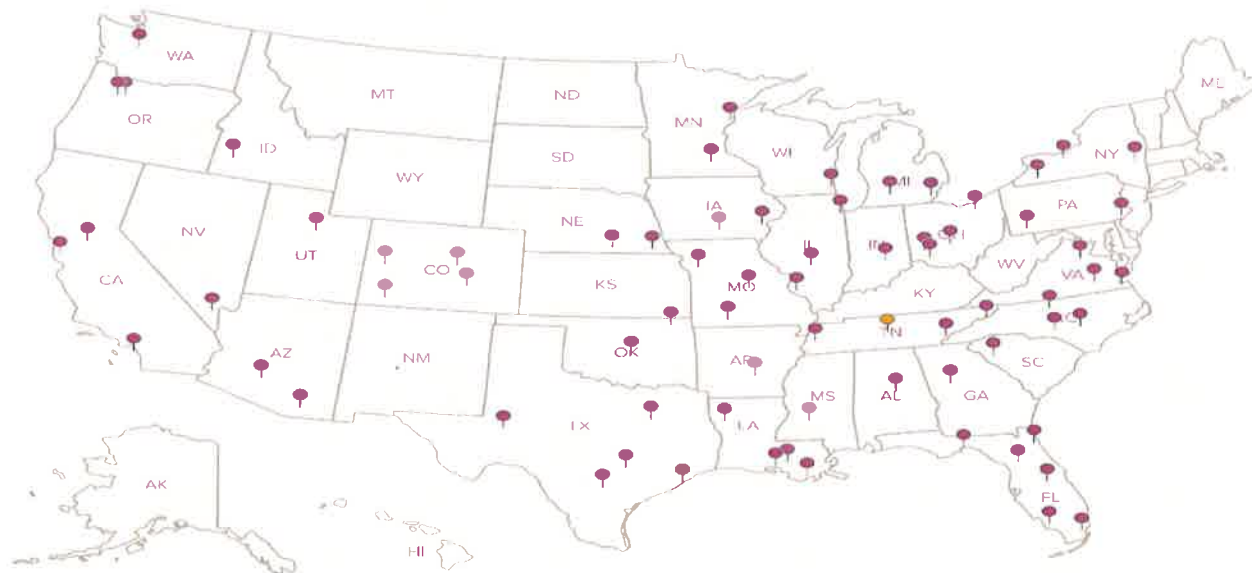
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{na} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





YOUR LAB OF CHOICE

Cooler Receipt Checklist

MAR 15 2017

Client: MAC TECKTN SDG# _____

Cooler Received/Opened On: 8-19-16 By Richard Hughes

Temperature Upon Receipt: 2.9 °C

(Signature)

Cooler Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	✓		
Were custody papers properly filled out (ink, signed, etc.)?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were correct preservatives used?	✓		
Were all applicable sample containers checked for preservation? (Any samples not in accepted pH range noted on COC.)	✓		
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated? (If yes see attached NCF)	✓	.	



...Green Technology through
Innovation

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